



OPzS Series-Flooded Battery

12V 30PzS150(12V148.8Ah)

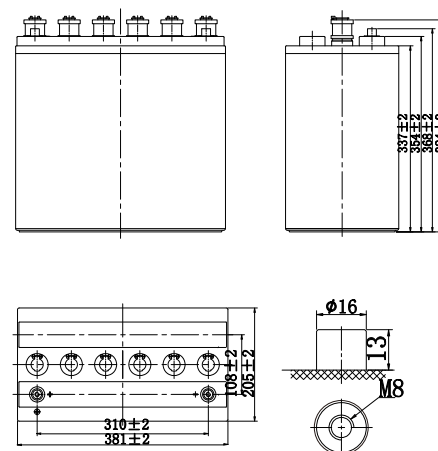


Specifications

Rated Voltage	12V	
Nominal Capacity	C ₈ , 1.80V/cell	148.8Ah
Dimension	Length	381±2mm (15.0 inches)
	Width	205±3mm (8.07 inches)
	Container Height	337±3mm (13.27 inches)
	Total Height	384±3mm (15.12 inches)
Approx Weight	Without Electrolyte 53.04kg (117.0lbs) With Electrolyte 67.44 kg (148.7lbs)	
Terminal	M8	
Container Material	SAN transparent container	
Rated Capacity (25°C)	154.0Ah	(10hr, 15.4A, 1.80V/cell)
	148.8Ah	(8hr, 18.6A, 1.75V/cell)
	127.0Ah	(5hr, 25.4A, 1.75V/cell)
	108.6Ah	(3hr, 36.2A, 1.75V/cell)
	82.6Ah	(1hr, 82.6A, 1.60V/cell)
Max. Discharge Current	1200A (5s)	
Internal Resistance (25°C)	Approx 9.8mΩ	
Operating Temp. Range	Discharge	-15 ~ 55°C (5 ~ 131°F)
	Charge	0 ~ 45°C (32 ~ 113°F)
	Storage	-15 ~ 45°C (5 ~ 113°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 0.1CA. Voltage 2.35V~2.40V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Standby Use	Initial Charging Current less than 0.1CA. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -2mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤4% per month at 25°C	



Layout



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	113.3	90.2	63.0	41.0	32.0	26.5	23.0	16.8	14.4	7.7
1.80V/cell	133.6	100.1	68.2	44.3	34.2	28.3	24.4	18.0	15.4	8.2
1.75V/cell	152.5	108.3	72.5	46.9	36.2	29.6	25.4	18.6	15.7	8.3
1.70V/cell	166.1	115.8	76.3	48.9	37.4	30.8	26.3	19.1	15.9	8.4
1.65V/cell	177.6	121.8	80.0	50.3	38.2	31.4	27.0	19.4	16.2	8.5
1.60V/cell	187.5	126.8	82.6	51.9	39.2	32.0	27.5	19.6	16.4	8.7

Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	214.2	173.0	122.2	80.1	62.6	52.1	45.1	33.2	28.3	15.3
1.80V/cell	247.5	188.8	130.3	85.5	66.2	54.7	47.5	35.2	30.0	15.7
1.75V/cell	278.9	201.8	136.6	89.3	68.9	56.7	48.7	35.7	30.1	15.9
1.70V/cell	299.7	213.6	142.6	92.1	70.7	58.4	50.1	36.4	30.4	16.0
1.65V/cell	316.5	221.9	148.1	94.0	71.8	59.1	50.8	36.7	30.6	16.1
1.60V/cell	328.2	227.6	150.9	95.7	72.5	59.3	50.9	36.9	30.8	16.2



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12V 3OPzS150(12V148.8Ah)



Applications

- Telecommunications
- Buoy lighting
- Standby power
- Railway signalling
- Emergency lighting systems
- Alternative power (solar, wind)
- Maritime standby power on ships and ashore

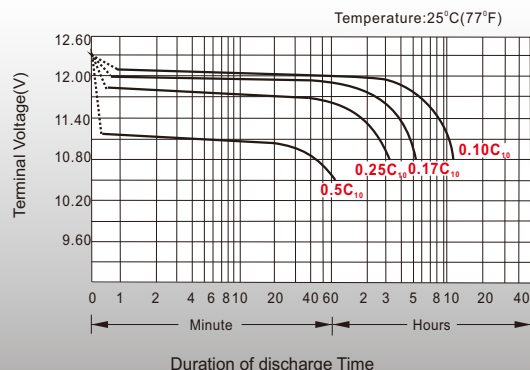
General Features

- 10-12 years design life(25°C)
- Lower self discharge
- Higher thermal capacity, no thermal runaway will occur
- Superior deep cycle performance
- Wide operation temperature range

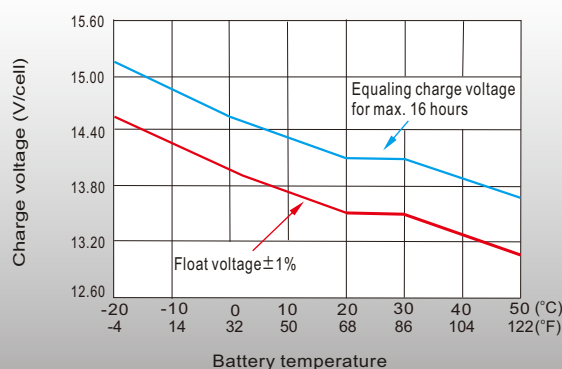
Standards

- Compliance with IEC60896 standards
- Manufactured in Leoch®TS16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

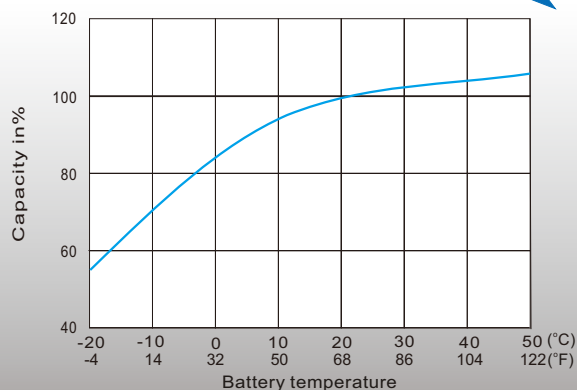
Discharge Characteristics



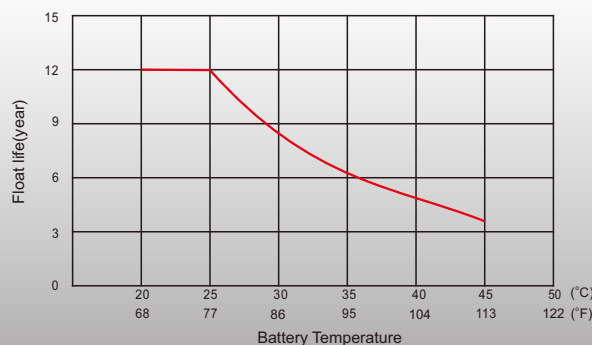
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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